

NEW COMBINATIONS IN THE LICHEN GENUS *PSEUDOPARMELIA* LYNGE*

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The genus *Pseudoparmelia* was described by Lynge (Ark. f. Botanik, 13(13): 15. 1914) on the basis of *P. cyphellata* Lynge. He had found "cyphellae" in a Brazilian specimen, but these were recognized later as scars of broken rhizines (Santesson, R. Sv. Bot. Tidskr. 36: 471-474. 1942). The generic name, however, is nomenclaturally valid and includes all species now recognized in *Parmelia* subgenus *Parmelia* section *Cyclocheila* (Hale, M.E. & S. Kurokawa, Contr. U.S. Nat. Herb. 36: 147. 1964). The genus *Pseudoparmelia* is thus recognized by the presence of simple rhizines and sublinear to irregularly widened, often apically subrotund lobes. Cilia are always absent and the apothecia adnate to substipitate with imperforate discs. The upper cortex consists of palisade plectenchyma with a pored epicortex (Hale, M.E., Smithsonian Contr. Bot. 10: 9. 1973). While still a rather heterogeneous group, it is most closely related to *Xanthoparmelia* in general morphology. In terms of chemical diversity it is second only to *Hypotrachyna* in the family.

At the present time at least 65 species can be recognized in *Pseudoparmelia* and further monographic work will uncover more, especially in Africa. Generally speaking, the genus occurs at lower elevations in dry temperate to subtropical regions with greatest frequency in Africa (Hale, M.E. Bryol. 75: 342-348. 1972).

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- Pseudoparmelia amazonica* (Nyl.) Hale, comb. nov. Basionym: *Farmelia amazonica* Nyl. Flora 68:611. 1885.
- Pseudoparmelia applexa* (Stirt.) Hale, comb. nov. Basionym: *Farmelia applexa* Stirt. Trans. Geobot. Soc. Field Nat. 5:212. 1877.
- Pseudoparmelia arhexa* (Kurok.) Hale, comb. nov. Basionym: *Farmelia arhexa* Kurok. in Hale & Kurok. Contr. U.S. Nat. Herb. 36:151. 1964.
- Pseudoparmelia aptata* (Krempfh.) Hale, comb. nov. Basionym: *Parmelia aptata* Krempfh. in Nyl. Flora 56:291. 1869.
- Pseudoparmelia arcana* (Kurok.) Hale, comb. nov. Basionym: *Farmelia arcana* Kurok. in Hale & Kurok. Contr. U.S. Nat. Herb. 36:151. 1964.
- Pseudoparmelia baltimorensis* (Gyell. & Fér.) Hale, comb. nov. Basionym: *Farmelia baltimorensis* Gyell. & Fér. Ann. Crypt. Exot. 4:167. 1931.
- Pseudoparmelia basutoensis* (Hale) Hale, comb. nov. Basionym: *Farmelia basutoensis* Hale, Bryol. 75:343. 1972.
- Pseudoparmelia benquellensis* (Vain.) Hale, comb. nov. Basionym: *Parmelia subaspera* var. *benquellensis* Vain. Cat. Welw. Afr. Fl. 2:401. 1901.
- Pseudoparmelia caperata* (L.) Hale, comb. nov. Basionym: *Lichen caperatus* L. Sp. Pl. 1147. 1753.
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- Pseudoparmelia carneopruinata* (Zahlbr.) Hale, comb. nov. Basionym: *Farmelia carneopruinata* Zahlbr. Akad. Wiss. Wien Math. Nat. Cl. Sitz. 111:419. 1902.
- Pseudoparmelia caroliniana* (Nyl.) Hale, comb. nov. Basionym: *Parmelia caroliniana* Nyl. Flora 68:614. 1885.
- Pseudoparmelia chapadensis* (Lynge) Hale, comb. nov. Basionym: *Parmelia chapadensis* Lynge, Ark. Bot. 13(13):153. 1914.
- Pseudoparmelia cinerascens* (Lynge) Hale, comb. nov. Basionym: *Parmelia cinerascens* Lynge, Ark. Bot. 13(13):104. 1914.
- Pseudoparmelia concrescens* (Vain.) Hale, comb. nov. Basionym: *Farmelia concrescens* Vain. Cat. Welw. Afr. Fl. 2:400. 1901.
- Pseudoparmelia condyloides* (Kurok.) Hale, comb. nov. Basionym: *Farmelia condyloides* Kurok. in Hale, Bryol. 75:343. 1972.
- Pseudoparmelia congruens* (Ach.) Hale, comb. nov. Basionym: *Farmelia congruens* Ach. Lich. Univ. 491. 1810.
- Pseudoparmelia crozalsiana* (B. de Lesd.) Hale, comb. nov. Basionym: *Farmelia crozalsiana* B. de Lesd. in Harm. Lich. de France 4:555. 1909.
- Pseudoparmelia cryptochlorophaea* (Hale) Hale, comb. nov. Basionym: *Farmelia cryptochlorophaea* Hale, Bryol. 62:18. 1959.

- Pseudoparmelia ecaperata* (Müll. Arg.) Hale, comb. nov. Basionym: *Parmelia ecaperata* Müll. Arg. Flora 74:378. 1891.
- Pseudoparmelia epileuca* (Hale) Hale, comb. nov. Basionym: *Parmelia epileuca* Hale, Bryol. 75:343. 1972.
- Pseudoparmelia eruptens* (Kurok.) Hale, comb. nov. Basionym: *Parmelia eruptens* Kurok. in Hale & Kurok. Contr. U.S. Nat. Herb. 36:153. 1964.
- Pseudoparmelia ferax* (Müll. Arg.) Hale, comb. nov. Basionym: *Parmelia ferax* Müll. Arg. Flora 69:257. 1886.
- Pseudoparmelia euflecta* (Stirt.) Hale, comb. nov. Basionym: *Parmelia euflecta* Stirt. Scot. Nat. 4:299. 1877-78.
- Pseudoparmelia geesterani* (Hale) Hale, comb. nov. Basionym: *Parmelia geesterani* Hale, Bryol. 75:344. 1972.
- Pseudoparmelia hypomilta* (Fée) Hale, comb. nov. Basionym: *Parmelia hypomilta* Fée, Essai Suppl. 123. 1837.
- Pseudoparmelia inhaminensis* (Dodge) Hale, comb. nov. Basionym: *Parmelia inhaminensis* Dodge, Ann. Mo. Bot. Gard. 46:130. 1959.
- Pseudoparmelia inornata* (Hale) Hale, comb. nov. Basionym: *Parmelia inornata* Hale, Phytol. 22:32. 1971.
- Pseudoparmelia intertexta* (Mont. & v.d. Bosch) Hale, comb. nov. Basionym: *Parmelia intertexta* Mont. & v.d. Bosch in Mont. Syll. Crypt. 327. 1856.
- Pseudoparmelia ischnoides* (Kurok.) Hale, comb. nov. Basionym: *Parmelia ischnoides* Kurok. in Hale & Kurok. Contr. U.S. Nat. Herb. 36:155. 1964.
- Pseudoparmelia labrosa* (Zahlbr.) Hale, comb. nov. Basionym: *Parmelia tenuirima* var. *labrosa* Zahlbr. Denkschr. Wiss. Akad. Wien 104: 108. 1941.
- Pseudoparmelia lecanoracea* (Müll. Arg.) Hale, comb. nov. Basionym: *Parmelia lecanoracea* Müll. Arg. Flora 71:529. 1888.
- Pseudoparmelia leucopsis* (Krempf.) Hale, comb. nov. Basionym: *Parmelia leucopsis* Krempf. Flora 61:461. 1878.
- Pseudoparmelia leucoxantha* (Müll. Arg.) Hale, comb. nov. Basionym: *Parmelia leucoxantha* Müll. Arg. Flora 64:85. 1881.
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- Pseudoparmelia martinicana* (Nyl.) Hale, comb. nov. Basionym: *Parmelia martinicana* Nyl. Flora 68:609. 1885.
- Pseudoparmelia meiosperma* (Hue) Hale, comb. nov. Basionym: *Parmelia internexa* f. *meiosperma* Hue, Nouv. Arch. Mus. Hist. Nat. ser. 4, 1:185. 1899.
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- Pseudoparmelia nairobiensis* (Stnr. & Zahlbr.) Hale, comb. nov. Basionym: *Parmelia nairobiensis* Stnr. & Zahlbr. Engl. Bot. Jahrb. 60:517. 1926.
- Pseudoparmelia owariensis* (Asah.) Hale, comb. nov. Basionym: *Parmelia owariensis* Asah. Journ. Jap. Bot. 26:8. 1938.

- Pseudoparmelia parvulacysta* (Hale) Hale, comb. nov. Basionym: *Parmelia parvulacysta* Hale, Bryotol. 5:244. 1972.
- Pseudoparmelia prolata* (Hale) Hale, comb. nov. Basionym: *Parmelia prolata* Hale, Bryotol. 75:344. 1973.
- Pseudoparmelia pseudosorediosa* (G. Gr.) Hale, comb. nov. Basionym: *Parmelia pseudosorediosa* Grev. Fungi Report. N. Nov. 29:222. 1852.
- Pseudoparmelia pustulosa* (Kurok.) Hale, comb. nov. Basionym: *Parmelia pustulosa* Kurok. in Hale & Kurok. Contr. U.S. Nat. Herb. 36:156. 1964.
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- Pseudoparmelia salacinifera* (Hale) Hale, comb. nov. Basionym: *Parmelia salacinifera* Hale in Hale & Kurok. Contr. U.S. Nat. Herb. 36:157. 1964.
- Pseudoparmelia schelpei* (Hale) Hale, comb. nov. Basionym: *Parmelia schelpei* Hale, Bryotol. 75:344. 1972.
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- Pseudoparmelia somaliensis* (Müll. Arg.) Hale, comb. nov. Basionym: *Parmelia somaliensis* Müll. Arg. Flora 68:501. 1885.
- Pseudoparmelia soredians* (Nyl.) Hale, comb. nov. Basionym: *Parmelia soredians* Nyl. Flora 55:421. 1872.
- Pseudoparmelia subtiliacea* (Nyl.) Hale, comb. nov. Basionym: *Parmelia subtiliacea* Nyl. Flora 68:614. 1885.
- Pseudoparmelia subtortula* (Hale) Hale, comb. nov. Basionym: *Parmelia subtortula* Hale, Phytol. 27:3. 1973.
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- Pseudoparmelia vandertylii* (Zahlbr.) Hale, comb. nov. Basionym: *Parmelia vandertylii* Zahlbr. Ann. Crypt. Exot. 5:252. 1932.
- Pseudoparmelia violacea* (Kurok.) Hale, comb. nov. Basionym: *Parmelia violacea* Kurok. in Hale & Kurok. Contr. U.S. Nat. Herb. 36:158. 1964.
- Pseudoparmelia xanthomelaena* (Müll. Arg.) Hale, comb. nov. Basionym: *Parmelia xanthomelaena* Müll. Arg. Flora 66:48. 1883.
- Pseudoparmelia zambiensis* (Hale) Hale, comb. nov. Basionym: *Parmelia zambiensis* Hale, Bryotol. 75:346. 1972.
- Pseudoparmelia zimbabwensis* (Hale) Hale, comb. nov. Basionym: *Parmelia zimbabwensis* Hale, Bryotol. 75:346. 1972.